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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,573	01/22/2004	Neil J. Goldfine	1884.2021-001	4895
21005 75	590 11/28/2006	. EXAMINER		
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.			CHERRY, STEPHEN J	
	530 VIRGINIA ROAD P.O. BOX 9133		ART UNIT	PAPER NUMBER
CONCORD, M	MA 01742-9133	01742-9133		
			DATE MAILED: 11/28/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	μ			
Office Action Summary							
		10/763,573	GOLDFINE ET AL.				
		Examiner	Art Unit				
	The MAILING DATE of this communication app	Stephen J. Cherry	vith the correspondence add	iress			
Period fo		ocars on the cover sincer	man are correspondence add	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
WHIC - External after - If NC - Failu Any rearn	ORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING DISIONS of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing aparent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this col ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 18 S						
	This action is FINAL . 2b) ☐ This action is non-final.						
3)∐	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice under the	±х рапе Quayle, 1935 С.	D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-26 and 37-46 is/are pending in the 4a) Of the above claim(s) 1-26 and 45 is/are w Claim(s) is/are allowed. Claim(s) 37-44 and 46 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	ithdrawn from considera	tion.				
Applicat	ion Papers						
,	The specification is objected to by the Examine		•				
10)	0) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the			:D 4 40441)			
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E						
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in prity documents have been to (PCT Rule 17.2(a)).	Application No en received in this National	Stage			
	ce of References Cited (PTO-892)	4) 🔲 Interview	v Summary (PTO-413)				
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		o(s)/Mail Date f Informal Patent Application 				

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claim 44, detection of property of conductivity, in the reply filed on 9-18-2006 is acknowledged. Therefore, claim 45, drawn to the non-elected species is withdrawn from further consideration.

Claim Objections

Claim 43 is objected to because of the following informalities: "the shot peening" lacks antecedent basis in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 37-42, 44, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 3,718,855 to Rogel, in view of U.S. Patent Application Publication 2002/0066770 to James et al.

With regard to the claim, Rogel discloses a method for health control of an article comprising: examining material condition of an article with an eddy current sensor ('855, col. 3, line 37); determining presence of an early stage damage, based on a variation of

an absolute electrical property ('855, col. 3, line 46); establishing a baseline condition for an absolute electrical property; and with the eddy current sensor, performing future inspections that use this baseline condition for comparison to make decisions based on article health ('855, col. 2, line 28, "comparison of inspection data"); wherein the eddy current sensor is a sensor array ('855, fit. 1, ref. 10); wherein the sensor is mounted to a surface of the article ('855, col. 3, line 8); wherein the sensor is scanned over a surface of the article ('855, col. 4, line 24); wherein the electrical property is electrical conductivity ('855, fig. 1, measurement in microamperes reflects conductivity).

However, James does not disclose methods or repairing damage.

With further regard to the claim, James teaches performing a health control action on the article if early stage damage is present ('770, fig. 2, repair, shown in block 50 integrated into inspection procedure, shown in blocks 32-38), integrating the health control action with scheduling of inspections (770, fig. 2, blocks, 38 and 50); wherein the health control action is blending out of early stage damage to extend life ('770, fig. 2, block 50); wherein the health control action effectively returns the article to original material condition ('770, fig. 2, block 50, deposition of material returns part to effectively original condition because discontinuity is eliminated).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the crack repair methods of James with the crack detection methods of Rogel to prevent catastrophic failure of parts (see '770, par. 5).

Claim 43 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 3,718,855 to Rogel, in view of U.S. Patent Application Publication 2002/0066770 to James et al as applied to claims 37 and 42 above, and further in view of U.S. Patent 6,670,577 to Staver et al.

The claim further recites, as disclosd by Staver, wherein the shot peening is performed after blending out ('577, col. 1, line 15).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the crack repair methods of James with the crack detection methods of Rogel to prevent catastrophic failure of parts (see '770, par. 5), and to further combine with the shot peening of Staver to stop further crack propagation ('577, col. 1, line 25).

Response to Arguments

Applicant's arguments filed 6-12-2006 regarding new claims have been fully considered but they are not persuasive. Because the claims are new, a new rejection has been applied. However, applicant argues that James in combination with Rogel does not teach after action is complete, establishing a baseline condition. However, this language is not necessarily limiting in the claim because the phrases are dependent upon "if" conditions which may not be present.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Cherry whose telephone number is (571) 272-2272. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SJC

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